

ABSTRACT**MACHINE TOOL WORKPIECE INSPECTION SYSTEM**

5 A workpiece inspection system is disclosed for
determining measurements of a workpiece on a machine
tool. The system utilises a measurement device which
outputs data relating to the workpiece (e.g. in place
of a conventional cutter). The problem of obtaining
10 real time data relating to the position of the machine
tool is overcome by recording a machine tool position
data set and a measurement device data set at selected
instants which are defined by a synchronisation signal.
The data sets are combined later in the correct
15 relative position because the synchronisation signal
was used. The synchronisation signal can issue from
the machine tool controller, an interface, measurement
device or another part of the system.